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In the Claims

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

- 1. (Currently Amended) An electrochemical device which comprises comprising a first pole, a second pole, and an ionic conductor, [[said]] the first pole containing comprising an active material having at least one element selected from the group consisting of 1B Group, 2B Group, 6A Group, 7A Group, and 8 Group of [[the]] a short-form periodic table, and [[said]] the ionic conductor containing comprising an element belonging to 2A Group and/or 3B Group of the short-form periodic table, wherein the active material has an average particle diameter as small as 1 nanometer.
- 2. (Currently Amended) The electrochemical device as defined in Claim 1, wherein the active material for the first pole [[is]] comprises a mixture of one or more (in mixture form) compounds, each of the one or more compounds is of the a metal oxide or a metal sulfide represented by a the general formula (1) below.

(1) MX -... (1),

(where wherein M denotes any is an element selected from a group consisting of Cr, Mn, Fe, Co, Ni,[[-]] Cu, Zn, Pd, Ag, Pt, and Au, and X denotes is an element selected from a group consisting of O or and S[[)].

3. (Currently Amended) The electrochemical device as defined in Claim 2, wherein the metal oxide or the metal sulfide represented by the general formula (1) is composed of an element M and an element X such that a the ratio of M/X M to X is in a range from 0.3 to 3.

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4. (Currently Amended) The electrochemical device as defined in Claim 1, wherein the active material for the first pole has an average particle diameter no smaller than 1 nanometer nm and no larger than 100 micrometers ⊞m.

5. (Original) The electrochemical device as defined in Claim 1, wherein the first pole is formed from the active material mixed with a conductive material and a polymeric binder.

6. (Currently Amended) The electrochemical device as defined in Claim 1, wherein [[said]] ions from the ionic conductor comprise [[are]] magnesium ions, aluminum ions, and/or calcium ions.

- 7. (Currently Amended) The electrochemical device as defined in Claim 1, wherein [[said]] the second pole comprises contains magnesium, aluminum, and/or calcium in the form of a simple substance or a compound.
- 8. (Currently amended) The electrochemical device as defined in Claim 1, wherein [[said]] the ionic conductor is an electrolytic solution or a solid electrolyte.
- 9. (Currently Amended) The electrochemical device as defined in Claim 1, wherein the electrochemical device which is a primary or secondary battery.
- 10. (New) An electrochemical device comprising a first pole, a second pole, and an ionic conductor, wherein:

the first pole comprises an active material comprising at least one compound represented by a general formula

MX,

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wherein M is an element selected from a group consisting of Cr, Mn, Fe, Co, Ni, Cu, Zn, Pd, Ag, Pt, and Au, and X is an element selected from a group consisting of O and S;

the ionic conductor comprises an element belonging to 2A Group and/or 3B Group of the short-form periodic table; and

the active material has an average particle diameter as small as 1 nanometer.

- 11. (New) The electrochemical device of claim 10, wherein the active material comprises a mixture of a plurality of compounds, each of the plurality of compounds being represented by the general formula MX.
- 12. (New) The electrochemical device of claim 10, wherein the electrochemical device is a primary or secondary battery, and wherein crystal structure of the active material is unchanged after charging and/or discharging during at least one cycle.
- 13. (New) The electrochemical device of claim 10, wherein the electrochemical device is a primary or secondary battery, and wherein crystal state of the active material is unchanged after charging and/or discharging during at least one cycle.
- 14. (New) The electrochemical device of claim 10, wherein a ratio of M to X in the at least one compound is between 0.3 and 3.
- 15. (New) The electrochemical device of claim 10, wherein a ratio of M to X in the at least one compound is between 0.5 and 0.7.
- 16. (New) The electrochemical device of claim 10, wherein the active material has an average particle diameter between 1 nanometer and 1 micrometer.

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17. (New) The electrochemical device of claim 10, wherein the active material has an average particle diameter between 10 nanometers and 300 nanometers.

- 18. (New) The electrochemical device of claim 10, wherein the ions from the ionic conductor comprise magnesium ions, aluminum ions, and/or calcium ions.
- 19. (New) The electrochemical device of claim 10, wherein the second pole comprises magnesium, aluminum, and/or calcium in form of a simple substance or a compound.
- 20. (New) The electrochemical device of claim 10, wherein the first pole comprises a mixture of the active material, a conductive material, and a polymeric binder.